

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-5 (Canceled).

6. (Previously Presented) A method for providing a data management system, comprising:
- preprocessing a database having a relation to produce an index, wherein said preprocessing step comprises:
 - identifying a dominating vector of constants, \bar{c} , for a given n-dimensional vector of constants \bar{c} ;
 - receiving a query having aggregation constraints;
 - applying said index to look up a result in response to said query having aggregation constraints; and
 - providing said result.
7. (Original) The method of claim 6, wherein said preprocessing step further comprises:
- obtaining a partition defined by said vector \bar{c} and said vector \bar{c}' .
8. (Original) The method of claim 7, wherein said partition is expressed as a hyper rectangle.
9. (Original) The method of claim 7, wherein said preprocessing step further comprises:
- inserting said partition into a multidimensional data structure.
10. (Original) The method of claim 9, wherein said multidimensional data structure is an R-Tree.

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Claims 11-24 (Canceled).